AMENDMENTS TO THE CLAIMS

1	1.	(Currently Amended) A computer-implemented method for generating a mapping				
2		scheme, the method comprising:				
3		reading source data definition that includes information about attributes of a source;				
4		reading target data definition that includes information about attributes of a target;				
5		receiving commands from a user, wherein said commands establish a mapping				
6		between one or more attributes of said a source and one or more attributes of				
7		said <u>a</u> target; and				
8		wherein a plurality of attributes of said source are related to each other according to a				
9		first hierarchy that includes multiple hierarchical levels;				
10		wherein a plurality of attributes of said target are related to each other according to a				
11		second hierarchy that includes multiple hierarchical levels;				
12		wherein said commands establish, in said mapping, that a particular hierarchical level				
13		of said source is mapped to a particular hierarchical level of said target,				
14		wherein said particular hierarchical level of said source is at a different depth,				
15		within said first hierarchy, than the depth of said particular hierarchal level of				
16		said target within said second hierarchy; and				
17		based on said commands, automatically generating a mapping scheme that represents				
18		said mapping, wherein said mapping includes at least one of:				
19		multiple attributes of said source mapped to a single attribute of said target;				
20		and				
21		multiple attributes of said target mapped to a single attribute of said source.				
1	2.	(Currently Amended) The method of claim 1, further comprising using said mapping				
2		scheme to create an electronic document with data from said source, wherein the				
3		electronic document has a particular format dictated by the a target data definition.				
1	3.	(Currently Amended) The method of claim 1, further comprising using said mapping				
2		scheme to store, into said target, data from an electronic document, wherein the				
3		electronic document has a particular format dictated by the a source data definition.				

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1	4.	(Original)	The method of claim 1, wherein said mapping scheme further includes			
2		instructions	on how to collapse a number of attributes of said source into a smaller			
3		number of at	tributes of said target.			
1	5.	(Original)	The method of claim 1, wherein said mapping scheme further includes			
2		instructions	on how to expand a number of attributes of said source to a greater			
3		number of at	tributes of said target.			
1	6.	(Original)	The method of claim 1, wherein:			
2		the step of receiving commands from a user includes receiving user input that				
3		speci	fies a condition, and an action associated with the condition; and			
4		the method further comprises the steps of				
5		performing an operation that includes converting data, based on said mapping				
6			scheme, from the source to a format associated with the target;			
7		durin	g performance of said operation, performing the steps of			
8			determining whether the condition is satisfied; and			
9			if the condition is satisfied, then performing said action.			
1	7.	(Original)	The method of claim 1, wherein:			
2		the step of receiving commands from a user includes receiving user input that				
3		speci	fies a specific set of instructions; and			
4		the method f	further comprises the steps of			
5		performing an operation that includes converting data, based on said n				
6			scheme, from the source to a format associated with the target; and			
7		during performance of said operation, executing the specific set of instruction				
8			to affect said operation.			
1	8.	(Original)	The method of claim 1, wherein:			
2		the step of re	ceiving commands from a user includes receiving user input that			
declares a variable to which values can b			res a variable to which values can be assigned; and			

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4		the method further comprises the steps of			
5		performing an operation that includes converting data, based on said mapping			
6		scheme, from the source to a format associated with the target; and			
7		during performance of said operation, using said variable.			
1	9.	(Original) The method of claim 1, wherein:			
2		the step of receiving commands from a user includes receiving user input that			
3		specifies a precompiled routine; and			
4		the method further comprises the steps of			
5		performing an operation that includes converting data, based on said mapping			
6		scheme, from the source to a format associated with the target; and			
7		during performance of said operation, calling said precompiled routine to			
8		affect said operation.			
1	10.	(Currently Amended) The method of claim 1, wherein further comprising:			
2		the attributes of said source correspond to a number of hierarchical levels;			
3		the attributes of said target correspond to a number of hierarchical levels; and			
4		the method further comprises the step of receiving user input that establishes a			
5		mapping between one or more hierarchical levels of said source and one or			
6		more hierarchical levels of said target			
7	•	reading source data definition that includes information about said plurality of			
8		attributes of said source;			
9		reading target data definition that includes information about said plurality of			
10		attributes of said target; and			
11		based on said source data definition and said target data definition, presenting to said			
12		user an interface that identifies said plurality of attributes of said source and			
13		said plurality of attributes of said target;			
14		wherein said step of receiving commands from said user is performed by receiving			
15		said commands through said interface.			

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- 1 11. (Currently Amended) The method of claim [[10]] 1, wherein said mapping scheme
- 2 includes instructions on how to collapse a number of hierarchical levels of said source
- into a smaller number of hierarchical levels of said target.
- 1 12. (Currently Amended) The method of claim [[10]] 1, wherein said mapping scheme
- 2 includes instructions on how to expand a number of hierarchical levels of said source
- 3 to a greater number of hierarchical levels of said target.
- 1 13. (Original) The method of claim 1, wherein at least one of the source and the
- 2 target is a database.
- 1 14. (Original) The method of claim 1, wherein at least one of the source and the
- 2 target is an XML document.
- 1 15. (Original) The method of claim 1, wherein said source is one of a database and
- an XML document and the target is the other of a database and an XML document.
- 1 16. (Original) The method of claim 1, wherein the source is a first XML document
- and the target is a second XML document.
- 1 17. (Original) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or more
- processors to perform the method recited in Claim 1.
- 1 18. (Original) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or more
- processors to perform the method recited in Claim 2.

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- 1 19. (Original) A computer-readable medium carrying one or more sequences of
 2 instructions which, when executed by one or more processors, causes the one or more
 3 processors to perform the method recited in Claim 3.
- 1 20. (Original) A computer-readable medium carrying one or more sequences of
 2 instructions which, when executed by one or more processors, causes the one or more
 3 processors to perform the method recited in Claim 4.
- 1 21. (Original) A computer-readable medium carrying one or more sequences of
 2 instructions which, when executed by one or more processors, causes the one or more
 3 processors to perform the method recited in Claim 5.
- 1 22. (Original) A computer-readable medium carrying one or more sequences of
 2 instructions which, when executed by one or more processors, causes the one or more
 3 processors to perform the method recited in Claim 6.
- 1 23. (Original) A computer-readable medium carrying one or more sequences of
 2 instructions which, when executed by one or more processors, causes the one or more
 3 processors to perform the method recited in Claim 7.
- 1 24. (Original) A computer-readable medium carrying one or more sequences of
 2 instructions which, when executed by one or more processors, causes the one or more
 3 processors to perform the method recited in Claim 8.
- 1 25. (Original) A computer-readable medium carrying one or more sequences of
 2 instructions which, when executed by one or more processors, causes the one or more
 3 processors to perform the method recited in Claim 9.

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- 1 26. (Original) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or more
- processors to perform the method recited in Claim 10.
- 1 27. (Original) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or more
- processors to perform the method recited in Claim 11.
- 1 28. (Original) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or more
- processors to perform the method recited in Claim 12.
- 1 29. (Original) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or more
- processors to perform the method recited in Claim 13.
- 1 30. (Original) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or more
- processors to perform the method recited in Claim 14.
- 1 31. (Original) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or more
- processors to perform the method recited in Claim 15.
- 1 32. (Original) A computer-readable medium carrying one or more sequences of
- 2 instructions which, when executed by one or more processors, causes the one or more
- processors to perform the method recited in Claim 16.

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